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SUBJECT

Gas Turbine Development at Brackmer & Kanis, Dresden

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There is a Technical Bureau in a building on the so-called "Industrie-Gellanden at Dresden, staffed by the firm of Bruckner & Kanis. Two new gas turbines are under development there; the first one is in the test bed, the other, on which work was only storted in early May 1943, is in its initial stage.

Turbine No. 1.

- 2. The specifications of this turbine are not known. The turbine casing and main block are of a new welded construction instead of grey cast iron. The compressor is of "Silomin-Gamma-Gass".*
- The Marine Praffeld of Bruckner & Kenis was destroyed in mid-April 1948, 3. and a new test bed was then built in the generating station on the "Industrie-Gellande".
- On this new test bed the turbine was tested in May 1948, but a bearing broke at 7,800 r.p.m.; it is now being repaired.
- During this test, it was also found that at speeds over 5,000 r.p.m., the compressor bearings failed to contain the pressure of 4 atmospheres which is an absolute set up in the lubricating system, and leaked badly. In addition, experiments with combustion chambers with jets of 0.3 mm have been conducted at 240 atm., using Soviet ter oil as fuel.

Turbine No. 2.

- This turbine is being designed for use in locomotives. It is to develop 21,000 h.p., of which 17,000 h.p. are provided by the compressor.
- Altogether there are 2,000 blades mounted on 12 vane rims. The size of each blade is 320 mm (sic) and the edge is curled over. The blades are being made on a newly-installed automatic machine tool with oil pressure control system. About 180 men are employed on designing and building this turbine.
 - Comment. "Silomin" may be the trade name for a non-metallic sintered 50X1-HUM material.

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